



**OPERATOR'S MANUAL  
MANUEL de L'UTILISATEUR  
MANUAL del OPERADOR**

**Catalog No.  
6514 Series**

**No de Cat.  
Séries 6514**

**Catálogo No.  
Serie 6514**



**18 VOLT SAWZALL® HATCHET™  
PASSE-PARTOUT SAWZALL® 18V  
SAWZALL® HATCHET™ DE 18 V**

**TO REDUCE THE RISK OF INJURY, USER MUST READ OPERATOR'S MANUAL.**

**AFIN DE RÉDUIRE LE RISQUE DE BLESSURES, L'UTILISATEUR DOIT LIRE LE MANUEL DE L'UTILISATEUR.**

**PARA REDUCIR EL RIESGO DE LESIONES, EL USUARIO DEBE LEER EL MANUAL DEL OPERADOR.**

## GENERAL SAFETY RULES-FOR ALL BATTERY OPERATED TOOLS



### WARNING

#### READ ALL INSTRUCTIONS

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

#### SAVE THESE INSTRUCTIONS

### WORK AREA SAFETY

1. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

### ELECTRICAL SAFETY

4. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
5. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
6. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
7. **Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep cord away from heat, oil, sharp edges, or moving parts.** Damaged or entangled cords increase the risk of electric shock.
8. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

### PERSONAL SAFETY

9. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
10. **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
11. **Avoid accidental starting. Ensure the switch is in the off-position before plugging in.** Carrying tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
12. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
13. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
14. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery, or long hair can be caught in moving parts.
15. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust-related hazards.

## POWER TOOL USE AND CARE

16. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
17. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
18. **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the tool accidentally.
19. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tools or these instructions to operate power tools.** Power tools are dangerous in the hands of untrained users.
20. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
21. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
22. **Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

## BATTERY TOOL USE AND CARE

23. **Ensure the switch is in the off position before inserting battery pack.** Inserting the battery pack into power tools that have the switch on invites accidents.
24. **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

25. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
26. **When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
27. **Under abusive conditions, liquid may be ejected from the battery, avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.

## SERVICE

28. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

## SPECIFIC SAFETY RULES

1. **Hold power tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
2. **Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
3. **Keep hands away from all cutting edges and moving parts.**
4. **Maintain labels and nameplates.** These carry important information. If unreadable or missing, contact a MILWAUKEE service facility for a free replacement.

5. **WARNING!** Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paint
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specifically designed to filter out microscopic particles.

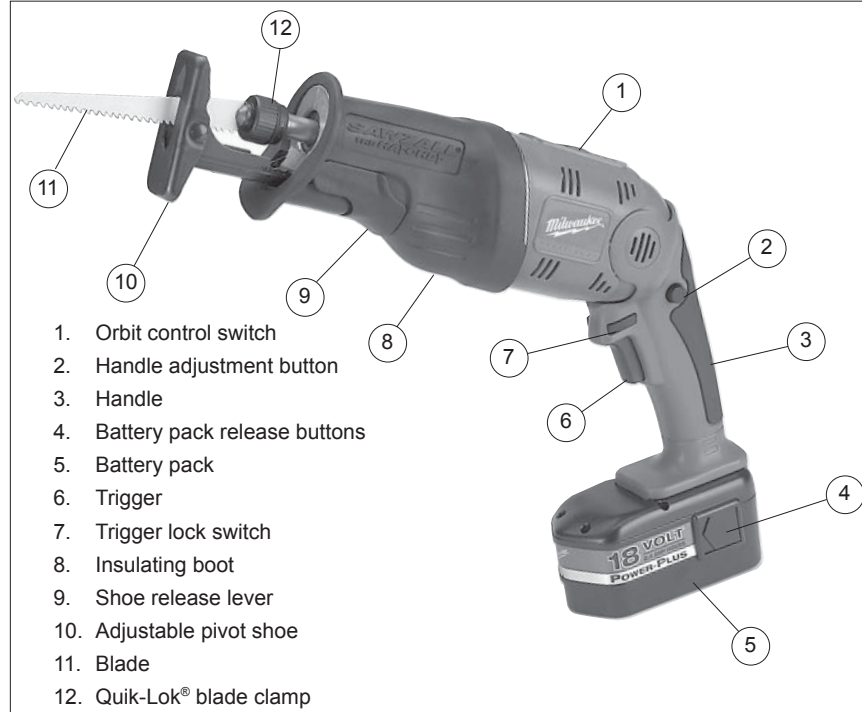
### Symbology

V	Volts Direct Current
n <sub>o</sub> <u>xxxx</u> /min.	No Load Strokes per Minute
US	Underwriters Laboratories, Inc.
	Orbital Cut
	Straight Cut

### Specifications

Cat. No.	Volts DC	Length of Stroke	Strokes per Minute
6514-20	18	3/4"	0 - 2700

## FUNCTIONAL DESCRIPTION



## ASSEMBLY



### WARNING

Recharge only with the charger specified for the battery pack. For specific charging instructions, read the operator's manual supplied with your charger and battery pack.



### WARNING

Always lock trigger or remove battery pack before changing or removing accessories. Only use accessories specifically recommended for this tool. Others may be hazardous.

### Removing Battery Pack from Tool

Push in the release buttons and remove the battery pack.

### Inserting Battery Pack into Tool

Battery pack can be inserted into the tool in two ways.

1. For working in restricted spaces, insert the battery pack from the front by pressing in the release buttons and sliding the battery pack into the body of the tool (Fig. 1). Insert the battery pack until clamp engages.



2. For optimum weight distribution and balance, insert the battery pack from the back by pressing in the release buttons and sliding the battery pack into the body of the tool (Fig. 2). Insert the battery pack until clamp engages.

Fig. 2



### Selecting a Blade

The Quik-Lok® Blade Clamp can be used with all 1/2" shank universal Sawzall® blades. Use MILWAUKEE High Performance Super Sawzall® blades for best performance. When selecting a blade, choose the right type and length.

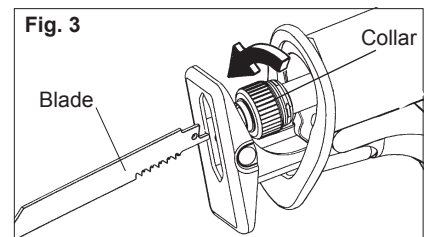
Many types of blades are available for a variety of applications: cutting metal, wood, nail-embedded wood, scroll cutting, roughing-in, and contours.

Many lengths are also available. Choose a length long enough to extend beyond the shoe and your work throughout the stroke. **Do not use blades less than 3-1/2" long since they will not extend beyond the shoe throughout the stroke.**

For best performance and longest life, see "Accessories" to select the best blade for the job.

### Installing and Removing Blades Quik-Lok® Blade Clamp

Fig. 3



1. Remove battery pack.
2. Be sure the spindle and blade clamp areas are clean. Metal chips and sawdust may prevent the Quik-Lok® Blade Clamp from clamping securely (see "Maintenance").

3. To **install** a blade, twist the collar in the direction of the arrow while inserting the blade into the clamp until the tang butts against the collar.

Depending on the job, the blade may be inserted with the teeth facing upward or downward.

4. Release the collar and the spring loaded mechanism will clamp the blade firmly in place.
5. Twist the collar in the opposite direction of the arrow to ensure that the blade is locked into the clamp.
6. Tug on blade to make sure it is securely locked in place.
7. To **remove** a blade, twist the collar in the direction of the arrow while pulling on the blade. Be careful when handling hot blades.

#### Removing Broken Blades from the Quik-Lok® Blade Clamp

1. Remove battery pack.
2. Broken blades can be removed by the following methods.
  - Point the tool downward, twist the collar, and shake the tool up and down (**DO NOT** turn on the tool while your fingers are holding the blade clamp open). The shank of the broken blade should drop out of the clamp.
  - If shaking the tool doesn't work...
 

In most cases, a corner of the broken blade will extend beyond the blade clamp. Twist the collar and pull the broken blade out of the clamp by this corner.

If the broken stub doesn't extend far enough to be grabbed by its corner, use a thin blade with small teeth (such as a metal cutting blade) to hook the blade that is jammed in the clamp while twisting the collar and pull it out.

### OPERATION



#### WARNING

To reduce the risk of injury, wear safety goggles or glasses with side shields.

#### Adjusting the Pivot Shoe

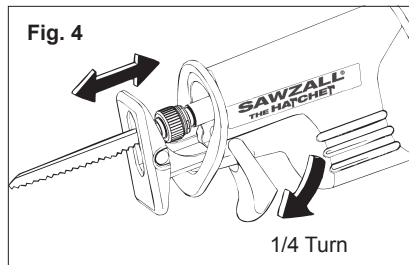
The shoe can be adjusted forward or backward to six positions to take advantage of the unused portion of the blade or for special jobs requiring low blade clearance.



#### WARNING

Do not operate Sawzall without a shoe. Striking the spindle against the work may damage the reciprocating mechanism.

Fig. 4



1. Remove battery pack.
2. To adjust the shoe, pull the shoe release lever down 1/4 turn down.
3. Slide the shoe forward or backward to the desired position.
4. To lock the shoe in position, push in the shoe release lever.
5. After adjusting the shoe, slowly pull the trigger to be sure the blade always extends beyond the shoe and your work throughout the stroke (Fig. 5).

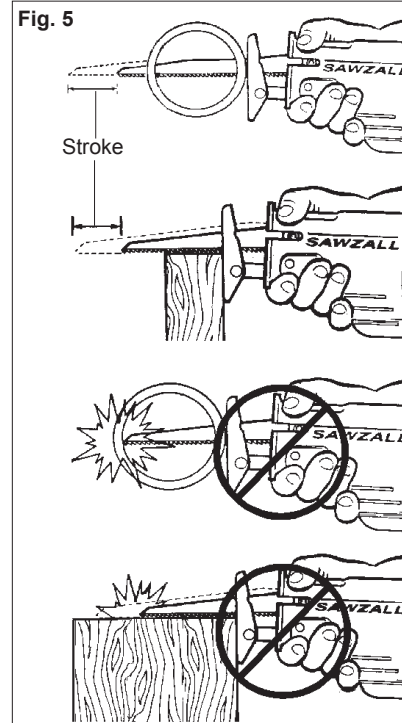
**DO NOT OPERATE SAWZALL WITHOUT SHOE. STRIKING THE SPINDLE AGAINST WORK MAY DAMAGE THE RECIPROCATING MECHANISM.**



#### WARNING

To reduce the risk of injury, be sure the blade always extends beyond the shoe and work throughout the stroke. Blades may shatter if they impact the work or shoe (Fig. 5).

Fig. 5



#### WARNING

To reduce the risk of injury, do not operate with the handle adjustment button pressed in or with the handle not locked into position.

#### Adjusting the Handle Angle

The adjustable handle allows the user to adjust the angle of the handle for optimum cutting positions.

1. Remove battery pack
2. Press in and hold the handle adjustment button.
3. Rotate the handle to the desired angle at one of six detents. The handle will snap into place.
4. Release the handle adjustment button.



#### WARNING

To reduce the risk of injury, do not operate if the handle moves with the handle adjustment button in a locked position. Return the tool to a MILWAUKEE service facility for repair immediately.



#### WARNING

To reduce the risk of injury, keep hands away from the blade and other moving parts.

#### Trigger Speed Control Switch

The Sawzall® Hatchet™ is equipped with a trigger speed control switch. It may be operated at any speed from zero strokes per minute to full speed. Always start tool before blade contacts the workpiece.

1. To **start** the tool, grasp the handle firmly and pull the trigger.
2. To **vary** the speed, increase or decrease the pressure on the trigger. The further the trigger is pulled, the greater the speed.
3. To **stop** the tool, release the trigger and allow the tool to stop completely before removing from a partial cut or before laying down the tool.

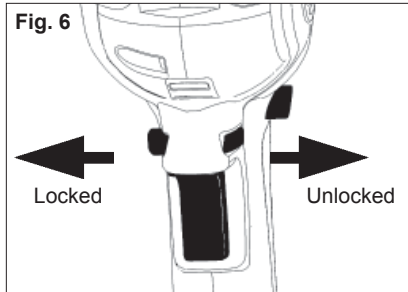


### Locking the Trigger

Always lock the trigger or remove the battery pack before changing accessories, making adjustments, or performing maintenance. Lock the trigger when the tool is not in use and when storing the tool.

1. To lock the trigger, push the trigger lock switch in the direction shown. The trigger will not work when the switch is in the locked position.
2. To unlock the trigger, push the trigger lock switch in the direction shown.

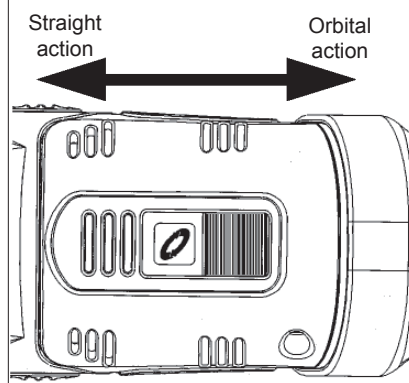
Fig. 6





### Using the Orbit Control Switch

The Sawzall Hatchet™ orbit control switch allows the tool to be operated in straight reciprocating (non orbital) or orbital action. Straight reciprocating action should be used when a smooth cut is needed. Orbital action is recommended for fast, aggressive cutting. The type of reciprocating action should be determined by the user for their specific cutting requirements.

Fig. 7



1. For **straight** reciprocating action, press in the orbit control switch and slide the switch so the straight action symbol  is shown.
2. For **orbital** action, press in the orbit control switch and slide the switch so the orbital action symbol  is shown.

Orbit action may be adjusted when the tool is running.

**NOTE:** If the blade is installed with the teeth facing upward and orbital action is selected, cutting performance is reduced.

### General Cutting

For straight or contour cutting from an edge, line the blade up with your cutting line. Before the blade contacts the workpiece, grasp the handle firmly and pull the trigger. Then guide the tool along your cutting line. Always hold the shoe flat against the workpiece to avoid excessive vibration.

### Cutting Metals

Begin cutting at a slow speed, gradually increasing speed as you cut. When cutting into metals or hard materials that can not be cut from an edge, drill a starting hole larger than the widest part of the blade. Extend blade life by using a solid blade cutting lubricant such as *MILWAUKEE* Band Saw Blade Lubricant Cat. No. 49-08-4206.

### Plunge Cutting

Your *MILWAUKEE* Sawzall® is ideal for plunge cutting directly into surfaces that can not be cut from an edge, such as walls or floors. Plunge cutting may be done two ways depending on how the blade is inserted. Column A shows how to plunge cut with the teeth of the blade facing down. Column B shows how to plunge cut with the teeth of the blade facing up.

**NOTE:** If the blade is installed with the teeth facing upward and orbital action is selected, cutting performance is reduced.

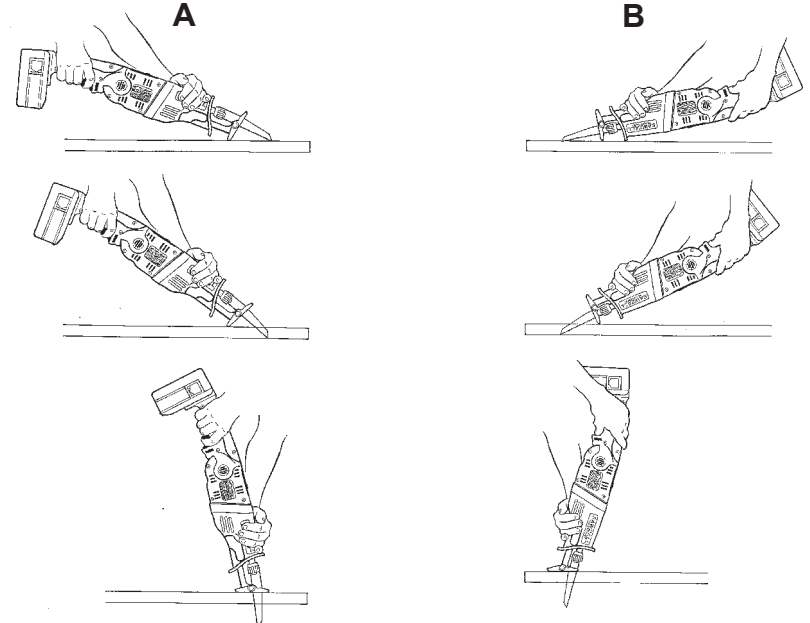
Do not plunge cut into metal surfaces (see "Cutting Metals").



### WARNING

To reduce the risk of explosion, electric shock and property damage, always check the work area for hidden gas pipes, electrical wires or water pipes when making blind or plunge cuts.

Fig. 8



1. Insert the blade into the tool.  
If you inserted the blade with the teeth facing downward, hold the tool as shown in Column A, resting the edge of the shoe on the workpiece.  
If you inserted the blade with the teeth facing upward, hold the tool as shown in Column B, resting the edge of the shoe on the workpiece as shown.
2. With the blade just above the workpiece, pull the trigger. Using the edge of the shoe as a pivot, lower the blade into the workpiece as shown.
3. As the blade starts cutting, raise the handle of the tool slowly until the shoe rests firmly on the workpiece. Then guide the tool along your cutting line to acquire the desired cut.

**NOTE:** To make plunge cutting easier, use a heavy gauge blade.

## MAINTENANCE

### **WARNING**

To reduce the risk of injury, always unplug the charger and remove the battery pack from the charger or tool before performing any maintenance. Never disassemble the tool, battery pack or charger. Contact a **MILWAUKEE** service facility for ALL repairs.

Keep your tool, battery pack and charger in good repair by adopting a regular maintenance program. After six months to one year, depending on use, return the tool, battery pack and charger to a **MILWAUKEE** service facility for:

- Lubrication
- Mechanical inspection and cleaning (gears, spindles, bearings, housing, etc.)
- Electrical inspection (battery pack, charger, motor)
- Testing to assure proper mechanical and electrical operation

### Maintaining Tool

If the tool does not start or operate at full power with a fully charged battery pack, clean the contacts on the battery pack. If the tool still does not work properly, return the tool, charger and battery pack, to a **MILWAUKEE** service facility for repairs.

### **WARNING**

To reduce the risk of personal injury and damage, never immerse your tool, battery pack or charger in liquid or allow a liquid to flow inside them.

### Cleaning

Clean dust and debris from charger and tool vents. Keep tool handles clean, dry and free of oil or grease. Use only mild soap and a damp cloth to clean the tool, battery pack and charger since certain cleaning agents and solvents are harmful to plastics and other insulated parts. Some of these include gasoline, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia and household detergents containing ammonia. Never use flammable or combustible solvents around tools.

### Repairs

For repairs, return the tool, battery pack and charger to the nearest service center listed on the back cover of this operator's manual.

## ACCESSORIES

### **WARNING**

Always remove battery pack before changing or removing accessories. Only use accessories specifically recommended for this tool. Others may be hazardous.

For a complete listing of accessories refer to your **MILWAUKEE** Electric Tool catalog or go on-line to [www.milwaukeetool.com](http://www.milwaukeetool.com). To obtain a catalog, contact your local distributor or a service center listed on the back cover of this operator's manual.

## FIVE YEAR TOOL LIMITED WARRANTY

Every **MILWAUKEE** electric power tool (including battery charger) is warranted to the original purchaser only to be free from defects in material and workmanship. Subject to certain exceptions, **MILWAUKEE** will repair or replace any part on a electric power tool which, after examination, is determined by **MILWAUKEE** to be defective in material or workmanship for a period of five (5) years\* after the date of purchase. Return the electric power tool and a copy of proof of purchase to a **MILWAUKEE** factory Service/Sales Support Branch location or **MILWAUKEE** Authorized Service Station, freight prepaid and insured, are requested for this warranty to be effective. This warranty does not apply to damage that **MILWAUKEE** determines to be from repairs made or attempted by anyone other than **MILWAUKEE** authorized personnel, misuse, alterations, abuse, normal wear and tear, lack of maintenance, or accidents.

\* The warranty period for Hoists (lever, hand chain, & electric chain hoists), Ni-Cd battery packs, Work Lights (cordless flashlights), Job Site Radios, and Trade Titans™ Industrial Work Carts is one (1) year from the date of purchase.

\*There is a separate warranty for Li-Ion Battery Packs that accompany the power tools:

\*Every **MILWAUKEE** Li-Ion Battery Pack is covered by an initial 1000 Charges/2 Years free replacement warranty. This means that for the earlier of the first 1000 charges or two (2) years from the date of purchase/first charge, a replacement battery will be provided to the customer for any defective battery free of charge. Thereafter, customers will also receive an additional warranty on a pro rata basis up to the earlier of the first 2000 charges or five (5) Years from the date of purchase/first charge. This means that every customer gets an additional 1000 charges or three (3) years of pro rata warranty on the Li-Ion Battery Pack depending upon the amount of use. During this additional warranty period, the customer pays for only the useable service received over and above the first 1000 Charges/2 years, based on the date of first charge and number of charges found on the battery pack via **MILWAUKEE**'s Service Reader. After 1000 charges/2 years from the date of purchase/first charge, the customer will be charged a prorated amount for the service rendered.

Warranty Registration is not necessary to obtain the applicable warranty on a **MILWAUKEE** product. However, proof of purchase in the form of a sales receipt or other information deemed sufficient by **MILWAUKEE**, is requested.

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This warranty applies to product sold in the U.S.A., Canada and Mexico only.

Please consult **MILWAUKEE**'s website [www.milwaukeetool.com](http://www.milwaukeetool.com) or call 1.800.SAWDUST (1.800.729.3878) to locate your nearest service facility for warranty and non-warranty service on a **MILWAUKEE** electric power tool.